

## Patent Abstracts of Japan

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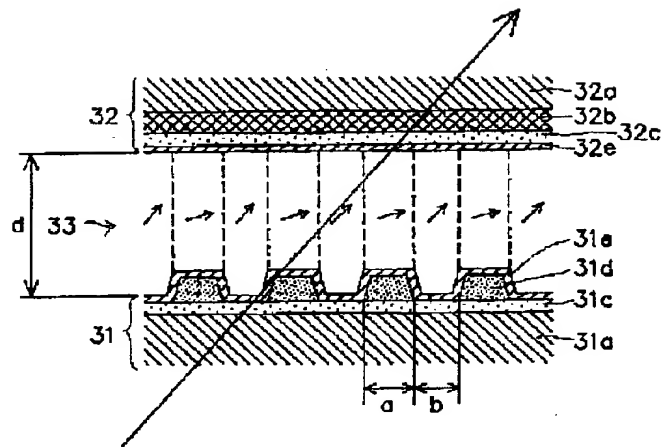
APPLICATION DATE : 27-07-93  
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APPLICANT : SHARP CORP;

INVENTOR : MIZUSHIMA SHIGEMITSU;

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TITLE : LIQUID CRYSTAL DISPLAY DEVICE



ABSTRACT : PURPOSE: To improve the visual angle characteristics of the liquid crystal display device by forming different orientation states within one display pixel.

CONSTITUTION: Wire-shaped insulating films 31d are formed in the part corresponding to one pixel by intersecting the average value of the direction where the respective parts on the long side of the wire-shaped insulating films 31d face and the average value of the orientation direction of the liquid crystal molecules projected onto a substrate with each other. The angle at which the liquid crystal molecules rise according to the impressed voltage in the liquid crystal layer part where the wire-shaped insulating films 31d do not exist and the angle at which the liquid crystal molecules rise under similar conditions in the liquid crystal layer part where the wire-shaped insulating films 31d exist are, therefore, varied when the voltage is impressed to the liquid crystal layer 3. The parts varying in the angles at which the liquid crystal molecules rise exist within the pixel and, therefore, the orientation states of the liquid crystal molecules vary within the one pixel.

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